



PTO/SB/08B (08-03)

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	10/691,002		
		Filing Date	October 22, 2003		
		First Named Inventor	Laurie B. Gower		
		Group Art Unit	1614		
		Examiner Name			
Sheet	1	of	1	Attorney Docket Number	UF-304XC2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R1	GOWER, L. "A model of biomineralization: Polymer-induced liquid-precursor (PILP) process" presented at Workshop on Investigation of Biomineralization Employing Model Systems, DFG Priority Programm 1117 Principles of Biomineralization, Braunschweig, Germany, September 23-24, 2003.	
	R2		
	R3		
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	U1	US-6,627,170 B2	09-30-2003	Takahashi et al.	All
	U2	US-6,592,712 B2	07-15-2003	Koukoulas et al.	All
	U3	US-6,190,633 B1	02-20-2001	Takahashi et al.	All
	U4	US-6,071,336	06-06-2000	Fairchild et al.	All
	U5	US-5,593,488	01-14-1997	Wu	All
	U6	US-5,147,507	09-15-1992	Gill	All
	U7	US-2004/0020410 A1	02-05-2004	Gane et al.	All
	U8	US-2003/0094252 A1	05-22-2003	Sundar et al.	All
	U9	US-2003/0059362 A1	03-27-2003	Takahashi et al.	All
	U10	US-10/819,040	04-05-2004	Gower et al. (patent application)	All
	U11				

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		Country Code ³	Number ⁴ - Kind Code ⁵ (if known)			
	F1	EP	0 143 363 B1	06-05-1985	Wacker Chemie GMBH	All
	F2	WO	03/089022 A1	10-30-2003	Univ. of Florida	All
	F3					
	F4					
	F7					

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	R1	GOWER, L. <i>et al.</i> "The influence of templates on mineralization via a precursor process" presented August 12, 2002 at Gordon Research Conference (GRC), New London, New Hampshire.	
	R2	GOWER, L. <i>et al.</i> "Biomimetic bone" presented at ACERS 28 th Int. Cocoa Beach Conference on Advanced Ceramics and Composites, January 28, 2004, Cocoa Beach, FL.	
	R3	GOWER, L. "Biomimetic processing of ceramic composites" presented at CIMTEC-10th International Ceramics Congress and 3rd Forum on New Materials, July 14-18, 2002, Florence, Italy.	
	R4	GOWER, L. "A new paradigm for biomineral formation" presented at 7 th Int. Conf.-The Chemistry and Biology of Mineralized Tissues, November 4-9, 2001, Sawgrass, FL.	
	R5	LEE, I. <i>et al.</i> "Nanoparticle-directed crystallization of calcium carbonate" <i>Adv. Mater.</i> , 2001, 12(21):1617-1620.	
	R6	OLSZTA, M.J. <i>et al.</i> "Synthesis of nano-fibrous CaCO ₃ through a solution-precursor-solid (SPS) process" presented April 7, 2003 at Materials Research Society (MRS) Spring Meeting, San Francisco, California.	
	R7	OLSZTA, M.J. and L. GOWER "Biomimetic composites using a polymer-induced liquid-precursor (PILP) process" presented June 2002 at Annual Society for Experimental Mechanics (SEM) meeting, Milwaukee, Wisconsin.	
	R8	OLSZTA, M.J. <i>et al.</i> "Scanning electron microscopic analysis of the mineralization of type I collagen via a polymer-induced liquid-precursor (PILP) process" <i>Calcif. Tissue Int.</i> , 2003, 72(5):583-591, Epub date March 6, 2003.	
	R9	OLSZTA, M.J. "Biomimetic mineralization of type-I collagen" presented at 7 th Int. Conf.-The Chemistry and Biology of Mineralized Tissues, November 4-9, 2001, Sawgrass, FL.	
	R10	OLSZTA, M.J. <i>et al.</i> "Mimicking the nanostructured architecture of bone" presented at Fall Materials Research Society (MRS), Session L: Continuous Nanophase and Nanostructured Materials, December 1-5, 2003, Boston, MA.	
	R11	OLSZTA, M.J. "Biomimetic mineralization of type-I collagen" presented at UEF Biomimetic Engineering Conference, March 3-7, 2002, Destin, FL.	
	R12	OLSZTA, M.J. <i>et al.</i> "Biomimetic mineralization of type I collagenous matrices" presented at MRS Spring Meeting Proceedings, Symposium O-Materials Inspired by Biology, April 21-25, 2003, San Francisco, CA.	
	R13		

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				Attorney Docket Number	UF-304XC2
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		Number	Kind Code* (if known)			
<i>gu</i>	U1	6,201,039	B1	Brown et al.	03-31-2001	All
<i>ar</i>	U2	5,455,231		Constantz et al.	10-03-1995	All
<i>ar</i>	U3	5,178,845		Constantz et al.	01-12-1993	All
<i>gu</i>	U4	4,880,610		Constantz	11-14-1989	All
<i>ar</i>	U5	4,865,602		Smestad et al.	09-12-1989	All
<i>ar</i>	U6	4,795,467		Piez et al.	01-03-1989	All
<i>gu</i>	U7	4,774,227		Piez et al.	09-27-1988	All
<i>ar</i>	U8	10/243,340		Gower et al. (patent application)	09-13-2002	All
<i>gu</i>	U9	5,532,217		Silver et al.	07-02-1996	All
<i>gu</i>	U10	5,273,964		Lemons	12-28-1993	All
	U11					
	U12					
	U13					
	U14					
	U15					
	U16					
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<i>gu</i>	F1	EP	0 270 254	B1	Smestad et al.	03-10-1993	All	
<i>ar</i>	F2	EP	0 197 693	B1	Piez et al.	10-23-1991	All	
<i>ar</i>	F3	EP	0 233 770	B1	Piez et al.	05-09-1990	All	
<i>ar</i>	F4	WO	03/035127	A1	Japan Sci. and Tech. Corp.	05-01-2003	Abstract	
	F5							
	F6							
	F7							
	F8							
	F9							

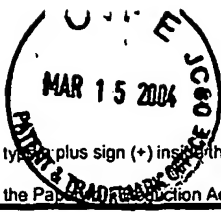
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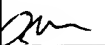



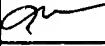
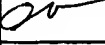


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	R1	ADDADI, L. and S. WEINER "Control and Design Principles in Biological Mineralization" <i>Angew. Chem. Int. Ed. Engl.</i> 1992, 31:153-169.		
	R2	ADDADI, L. <i>et al.</i> "A Chemical Model for the Cooperation of Sulfates and Carboxylates in Calcite Crystal Nucleation: Relevance to Biomineralization" <i>PNAS USA</i> , May 1, 1987, 84(9):2732-2736.		
	R3	ADDADI, L. <i>et al.</i> "Growth and Dissolution of Organic Crystals with 'Tailor-Made' Inhibitors—Implications in Stereochemistry and Materials Science" <i>Angew. Chem. Int. Ed. Engl.</i> , 1985, 24:466-485		
	R4	ADDADI, S. and S. WEINER "Interactions between Acidic Proteins and Crystals: Stereochemical Requirements in Biomineralization" <i>PNAS USA</i> , June 15, 1985, 82(12):4110-4114.		
	R5	AIZENBERG, J. "Patterned crystallization of calcite in vivo and in vitro" <i>J. Crystal Growth</i> , 2000, 211:143-148.		
	R6	BIANCO, P. "Structure and Mineralization of Bone" in <i>Calcification in Biological Systems</i> , Bonnucci, E., Ed., Chapter 11, pp. 243-268, 1992, CRC Press, Inc., Boca Raton, FL.		
	R7	BRADT, J-H. <i>et al.</i> "Biomimetic Mineralization of Collagen by Combined Fibril Assembly and Calcium Phosphate Formation" <i>Chem. Mater.</i> , 1999, 11:2694-2701.		
	R8	CARLSON, S.J. "Vertebrate Dental Structures" in <i>Skeletal Biomineralization: Patterns, Processes and Evolutionary Trends</i> Carter, J.G., Ed., Chapter 21, pp. 531-556, 1990, Van Nostrand Reinhold, New York, NY.		
	R9	DENG, Y. <i>et al.</i> "Study on the three-dimensional proliferation of rabbit articular cartilage-derived chondrocytes on polyhydroxyalkanoate scaffolds" <i>Biomaterials</i> , 2002, 23:4049-4056.		
	R10	DICKINSON, R.B. <i>et al.</i> "Biased Cell Migration of Fibroblasts Exhibiting Contact Guidance in Oriented Collagen Gels" <i>Annals. Biomed. Engin.</i> , 1994, 22:342-356.		
	R11	FRANCILLON-VIEILLLOT, H. <i>et al.</i> "Microstructure and Mineralization of Vertebrate Skeletal Tissues" in <i>Skeletal Biomineralization: Patterns, Processes and Evolutionary Trends</i> Carter, J.G., Ed., Chapter 20, pp. 471-530, 1990, Van Nostrand Reinhold, New York, NY.		
	R12	GOWER, L. and D. ODOM "Deposition of calcium carbonate films by a polymer-induced liquid-precursor (PILP) process" <i>J. Crystal Growth</i> , 2000, 210:719-734.		
	R13	GOWER, L. and D. TIRRELL "Calcium carbonate films and helices grown in solutions of poly(aspartate)" <i>J. Crystal. Growth</i> , 1998, 191:153-160.		

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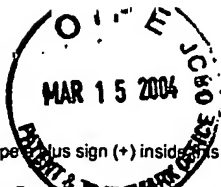
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	R14	GOWER, L. "The Influence of Polyaspartate Additive on the Growth and morphology of Calcium Carbonate Crystals" Doctoral Dissertation, 1997, University of Massachusetts at Amherst.	
	R15	GREENFIELD, E.M. <i>et al.</i> "Ionotropic Nucleation of Calcium Carbonate by Molluscan Matrix" <i>Amer. Zool.</i> , 1984, 24:925-932.	
	R16	GUIDO, S. and R. TRANQUILLO "A methodology for the systematic and quantitative study of cell contact guidance in oriented collagen gels" <i>J. Cell Sci.</i> , 1993, 105:317-331.	
	R17	JONES, D. and U. WALTER "The Silicate Garden Reaction in Microgravity: A Fluid Interfacial Instability" <i>J. Colloid and Interface Sci.</i> , 1998, 203:286-293.	
	R18	KATZ, E.P. <i>et al.</i> "The Structure of Mineralized Collagen Fibrils" <i>Connective Tissue Res.</i> , 1989, 21:149-158.	
	R19	LANDIS, W.J. <i>et al.</i> "Mineral and Organic Matrix Interaction in Normally Calcifying Tendon Visualized in Three Dimensions by High-Voltage Electron Microscopic Tomography and Graphic Image Reconstruction" <i>J. Struct. Biol.</i> , 1993, 110:39-54.	
	R20	LANDIS, W.J. <i>et al.</i> "Topographic Imaging of Mineral and Collagen in the Calcifying Turkey Tendon" <i>Connective Tissue Res.</i> , 1991, 25:181-196.	
	R21	MANN, S. "Mineralization in Biological Systems" <i>Structure and Bonding</i> , 1983, 54:125-174.	
	R22	MANN, S. "Crystallochemical Strategies in Biomineralization" in <i>Biomineralization: Chemical and Biochemical Perspectives</i> , Mann, S <i>et al.</i> , Eds., Chapter 2, pp. 35-62, 1989, VCH Publishers, New York, N.Y.	
	R23	MURTHY, N.S. "Liquid Crystallinity in Collagen Solutions and Magnetic Orientation of Collagen Fibrils" <i>Biopolymers</i> , 1984, 23:1261-1267.	
	R24	NEHRER, S. <i>et al.</i> "Chondrocyte-seeded collagen matrices implanted in a chondral defect in a canine model" <i>Biomaterials</i> , 1998, 19:2313-2328.	
	R25	OH, Y.R. and O.O. PARK "Transient Flow Birefringence of Calf Skin Collagen Solutions" <i>J. Chem. Eng. Jpn.</i> , 1992, 25(3):243-250.	
	R26	OLSZTA, M.J. <i>et al.</i> "A New Paradigm for Biomineral Formation: Mineralization via an Amorphous Liquid-Phase Precursor" <i>Connective Tissue Res.</i> , 2003, 44(Suppl. 1):326-334.	

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Sheet	4	of	4	Attorney Docket Number	UF-304XC2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	R27	OLSZTA, M. "Biomimetic Mineralization of Collagen for Nanostructured Composites" poster materials, June 2001, Department of Materials Science and Engineering, University of Florida, Gordon Research Conference.	
	R28	SCIADINI, M.F. et al. "Evaluation of Bovine-Derived Bone Protein with a Natural Coral Carrier as a Bone-Graft Substitute in a Canine Segmental Defect Model" <i>J. Orthopaedic Res.</i> , 1997, 15:844-857.	
	R29	SIVAKUMAR, M. and K PANDURANGA RAO "Preparation, characterization and in vitro release of gentamicin from coralline hydroxyapatite-gelatin composite microspheres" <i>Biomaterials</i> , 2002, 23:3175-3181.	
	R30	TRANQUILLO, R.T. et al. "Magnetically orientated tissue-equivalent tubes: application to a circumferentially orientated media-equivalent" <i>Biomaterials</i> , 1996, 17:349-357.	
	R31	TRAUB, W. et al. "Origin of Mineral Crystal Growth in Collagen Fibrils" <i>Matrix</i> , 1992, 12:251-255.	
	R32	TRAUB, W. et al. "Three-Dimensional Ordered Distribution of Crystals in Turkey Tendon Collagen Fibers" <i>PNAS USA</i> , December 15, 1989, 86(24):9822-9826.	
	R33	WEINER, S. et al. "Lamellar Bone: Structure-Function Relations" <i>J. Struc. Biol.</i> , 1999, 126:241-255.	
	R34	WEINER, S. and W. TRAUB "Bone structure: from ångstroms to microns" <i>FASEB J.</i> , 1992, 6:879-885.	
	R35	WEINER, S. and W. TRAUB "Organization of Crystals in Bone" in <i>Mechanisms and Phylogeny of Mineralization in Biological Systems</i> , Suga, S. and Nakahara, H., Eds., Chapter 2.21, pp. 247-253, 1991.	
	R36	ZHANG, R. and P. MA "Poly(α-hydroxyl acids)/hydroxyapatite porous composites for bone-tissue engineering. I. Preparation and morphology" <i>J. Biomed. Mater. Res.</i> , 1999, 44:446-455.	
	R37	ZUND, G. et al. "Tissue engineering in cardiovascular surgery: MTT, a rapid and reliable quantitative method to assess the optimal human cell seeding on polymeric meshes" <i>Euro. J. Cardio-thoracic Surg.</i> , 1999, 15:519-524.	
	R38	KIKUCHI, M. et al. "Preparation of hydroxyapatite/collagen composites using biomimetic process and their biocompatibility" <i>Mat. Res. Soc. Symp. Proc.</i> , 2000, 599:51-53.	
	R39	ROVERI, N. et al. "Biologically inspired growth of hydroxyapatite nanocrystals inside self-assembled collagen fibers" <i>Mat. Sci. Eng.</i> , 2003, 23(3):441-446 (abstract).	

Examiner Signature		Date Considered	7/10/06
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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